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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,665	07/15/2003	Sung-Jae Moon	YOM-0038	7173
7590	01/10/2005		EXAMINER	
DAVID A. FOX 55 Griffin South Road Bloomfield, CT 06002			DUDEK, JAMES A	
			ART UNIT	PAPER NUMBER
			2871	

DATE MAILED: 01/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/619,665	MOON, SUNG-JAE	
	Examiner James A. Dudek	Art Unit 2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) 13 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-12 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____. | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____. |

DETAILED ACTION***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-10 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by US 2002/0085169 A1 (“169”).

Per claim 1, 169 teaches the liquid crystal display comprising: a liquid crystal panel including a plurality of first display signal lines [G1-Gn], a plurality of second display signal lines crossing the first display signal lines [D1-Dn], a plurality of switching elements connected to the first display signal lines and the second display signal lines [11], a plurality of pixel electrodes connected to the switching elements [11], and at least one inspection line for transmission of test signals to the second display signal lines [see lines couples the gate and data lines and are connected to pads 15a, 15b, 17a, 17b], wherein the at least one inspection line is separated from the first and second display signal lines, the switching elements, and the pixel electrodes [see figure for the gap between these element], the at least one inspection line includes a test pad for receiving an externally applied test signal [15, 17], and the test pad is formed at a position where an external device is attached to the liquid crystal panel [see paragraph 0009, signals are applied to the pads, what supplies the signal is the test equipment].

Per claim 2, 169 teaches the liquid crystal display of claim 1, wherein the at least one inspection line comprises at least two inspection lines, and the second display signal lines are alternately connected to the at least two inspection lines [lines connected to 15a is one and 15b is the other].

Per claim 3, 169 teaches the liquid crystal display of claim 1, further comprising a plurality of drivers connected to the second display signal lines [see the conventional cell drivers in figures 1a-1c].

Per claim 4, 169 teaches the liquid crystal display of claim 3, further comprising a plurality of connecting lines interconnecting the drivers [see connecting lines not labeled but shown in the figures].

Per claim 5, 169 teaches the liquid crystal display of claim 4, wherein the connecting lines extend straight [see figures].

Per claim 6, 169 teaches the liquid crystal display of claim 4, wherein the test pad is closer to an edge of the liquid crystal panel than to the connecting lines.

Per claim 7, 169 teaches the liquid crystal display of claim 3, wherein the test pad is disposed between the driver and an edge of the liquid crystal panel [see the figures the pads are on the outer regions of the panel].

Per claim 8, 169 teaches the liquid crystal display of claim 3, wherein each of the drivers is formed as a chip [see paragraph 0006].

Per claim 9, 169 teaches the liquid crystal display of claim 1, further comprising a plurality of flexible printed circuit films attached to the liquid crystal panel, wherein the external devices are the flexible printed circuit films [see films 4].

Per claim 10, 169 teaches the liquid crystal display of claim 1, wherein the at least inspection line and the second display signal line are electrically separated [the data and gate lines are separated and thus the inspection lines for 15a is separated electrically from the signal lines].

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Per claim 11, 169 teaches the liquid crystal display of claim 10, further comprising a connecting member including the same layer as the pixel electrodes, wherein the connecting member is connected to at least one of the at least one inspection line and the second display signal line [the connection member is the lines extending perpendicularly from the inspection lines.]

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over 169.

Per claim 12, 169 teaches the liquid crystal display of claim 11, but lacks the at least one inspection line includes the same material as at least one of the first display signal lines, the second display signal lines, and the pixel electrodes. However, this was well known in order to decrease the manufacturing steps by form both lines at the same time. Accordingly it would have been obvious to one of ordinary skill at the time of invention to combine the method of forming multiple lines from the same material with 169.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Dudek whose telephone number is 571-272-2290. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



James A. Dudek

Primary Examiner

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